

Application No.: 10/695,655

Docket No.: JCLA8714-R

REMARKS**Present Status of Application**

The Office Action dated June 27, 2006, rejected claims 2-6, 8-12 and 20 under 35 U.S.C. §102(b) as being anticipated by Jen et al. (*Multifunctional Polymers for Electro-optic and Light-emitting Applications*”).

Applicants have amended claim 1 by adding the limitation claimed in claim 8. No new matter has been added to the application by the amendments made herein. After entry of the foregoing amendments, claims 1-6 and 9-12 remain pending in the present application, and reconsideration of those claims is respectfully requested.

Discussion for 35 USC§102 rejections

*Claims 2-6, 8-12 and 20 were rejected under 35 U.S.C. §102(b) as being anticipated by Jen et al. (*Multifunctional Polymers for Electro-optic and Light-emitting Applications*”).*

Claim 1 has been amended by further introducing the size of the electron-donating group Z claimed in claim 8.

Applicants submit that amended independent claim 1 patently defines over the prior references for at least the reason that the cited art fails to disclose each and every feature as claimed in the present invention.

The reference Jen et al. merely discloses the approach for synthesizing nonlinear optical

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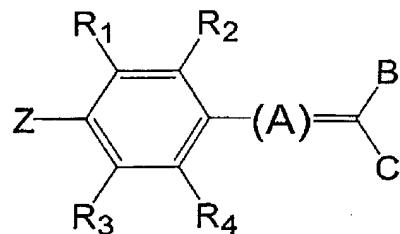
(NLO) side-chain aromatic polyquinolines. The resulting bipolar polymers containing a hole-transporting moiety tetraphenyldiaminobiphenyl (TPD) and a light-emitting moiety bis-quinoline are shown as TPD-PQ or TPD-PQE (in Scheme 2). Jen propose to spin coating the polymer to form a thin film made of the side-chain polyquinoline on the ITO substrate (pp. 473, the last second paragraph) for EL devices.

The Office Action alleged that the polymer backbone disclosed by Jen in Scheme 1 of Jen's application is R_5 of the electron-donating group Z of the present invention. However, it is clear that the polymer backbone of Jen's application is a compound containing more than 70 carbons. Even though the polymer backbone is a monomer, the monomer contains more than 30 carbons. On the contrary, in the present invention, the electron-donating group Z can contain at most 20 carbons (paragraph [0035]). Jen fails to teach or suggest that the polymer backbone can be a chemical compound containing at most 10 carbons.

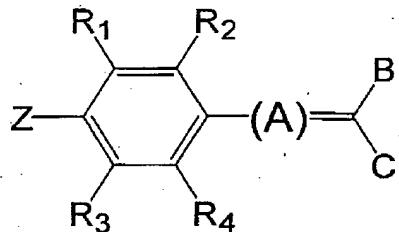
Hence, the reference Jen et al. fails to teach or suggest at least an organic electroluminescent layer that *is made of* a compound with the following structure having electron-donating group Z , $-NR_5R_6$, wherein R_5 and R_6 are respectively a hydrogen, substituted alkyl having 1 to 10 carbons, unsubstituted alkyl having 1 to 10 carbons, substituted cycloalkyl having 1 to 10 carbons, unsubstituted cycloalkyl having 1 to 10 carbons, substituted alkyloxy having 1 to 10 carbons, unsubstituted alkyloxy having 1 to 10 carbons, substituted alkenyl having 1 to 10 carbons, unsubstituted alkenyl having 1 to 10 carbons, substituted amino, unsubstituted amino, substituted polycyclic aromatic having 6

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to 10 carbons or unsubstituted polycyclic aromatic having 6 to 10 carbons.

Accordingly, the independent claim 1 recites at least the feature "a material of the organic electroluminescent layer *is* a compound represented by a following chemical structure (1):



(1)
....."

and clearly distinguishes the present invention over the cited references.

Dependent claims 2-6, 9-12 and 20 are submitted to be patentably distinguishable over the cited references for at least the same reasons as independent claim 1, from which these claims respectively depend, as well as for the additional features that these claims recite.

In view of the above amendment and discussions, reconsideration and withdrawal of these rejections under 35 USC 102(b) are respectfully requested.

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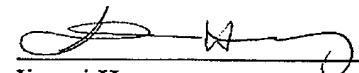
CONCLUSION

In view of the foregoing, it is believed that all pending claims are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

Date: 2/14/2007

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